



## Features

- Shielded construction
- Inductance range: 1.2 to 390  $\mu$ H
- Heating current up to 4.8 A
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRR4528A Series – Shielded Power Inductors

### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		SRF (MHz) Typ.	DCR (m $\Omega$ )		I rms (A) Typ.	I sat (A) Typ.
	L ( $\mu$ H)	Tol. %		Typ.	Max.		
SRR4528A-1R2Y	1.2	± 30 %	82.0	12.3	17.0	4.82	3.04
SRR4528A-1R8Y	1.8	± 30 %	78.0	14.3	20.0	4.20	2.50
SRR4528A-2R2Y	2.2	± 30 %	76.0	17.4	23.0	3.78	2.32
SRR4528A-2R7Y	2.7	± 30 %	68.0	19.1	29.0	3.40	2.10
SRR4528A-3R3Y	3.3	± 30 %	60.0	25.6	35.0	2.93	1.82
SRR4528A-3R9Y	3.9	± 30 %	58.0	28.2	37.0	2.80	1.70
SRR4528A-4R7Y	4.7	± 30 %	54.0	29.8	40.0	2.63	1.58
SRR4528A-5R6Y	5.6	± 30 %	50.0	34.9	47.0	2.39	1.49
SRR4528A-6R8Y	6.8	± 30 %	45.0	43.2	58.0	2.25	1.37
SRR4528A-7R4Y	7.4	± 30 %	42.0	46.7	63.0	2.16	1.28
SRR4528A-8R2Y	8.2	± 30 %	38.0	51.5	70.0	2.12	1.22
SRR4528A-100M	10.0	± 20 %	35.0	64.9	88.0	1.76	1.13
SRR4528A-120M	12.0	± 20 %	28.0	74.2	100.0	1.62	0.99
SRR4528A-150M	15.0	± 20 %	24.0	87.9	119.0	1.42	0.90
SRR4528A-180M	18.0	± 20 %	23.0	104.0	136.0	1.28	0.85
SRR4528A-220M	22.0	± 20 %	21.0	138.0	179.0	1.10	0.72
SRR4528A-270M	27.0	± 20 %	20.0	152.0	197.0	1.06	0.68
SRR4528A-330M	33.0	± 20 %	18.0	184.0	239.0	0.95	0.59
SRR4528A-390M	39.0	± 20 %	16.0	218.0	272.0	0.90	0.57
SRR4528A-470M	47.0	± 20 %	15.0	240.0	300.0	0.86	0.52
SRR4528A-560M	56.0	± 20 %	14.0	278.0	348.0	0.81	0.45
SRR4528A-680M	68.0	± 20 %	12.0	361.0	452.0	0.70	0.41
SRR4528A-820M	82.0	± 20 %	11.0	442.0	552.0	0.59	0.39
SRR4528A-101M	100.0	± 20 %	10.0	487.0	609.0	0.56	0.34
SRR4528A-121M	120.0	± 20 %	9.0	547.0	700.0	0.53	0.30
SRR4528A-151M	150.0	± 20 %	8.5	724.0	905.0	0.48	0.29
SRR4528A-181M	180.0	± 20 %	7.0	903.0	1128.0	0.43	0.26
SRR4528A-221M	220.0	± 20 %	6.0	1184.0	1480.0	0.37	0.23
SRR4528A-271M	270.0	± 20 %	5.0	1290.0	1612.0	0.34	0.19
SRR4528A-331M	330.0	± 20 %	4.5	1730.0	2160.0	0.32	0.18
SRR4528A-391M	390.0	± 20 %	4.0	1910.0	2380.0	0.28	0.17

### General Specifications

Operating Temperature ..... -40 °C to +125 °C  
(Temperature rise included)  
Storage Temperature ..... -40 °C to +125 °C  
Temperature Rise ..... 40 °C typ.  
at rated I rms  
Inductance Drop ..... 35 % typ. at I sat  
MSL ..... 1  
ESD Classification (HBM)..... N/A

### Materials

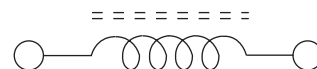
Core ..... Ferrite  
Wire ..... Enameled copper  
Terminal Finish ..... Sn  
Packaging ..... 500 pcs. per 7-inch reel

### How to Order

**SRR4528A - 1R2Y**

Model \_\_\_\_\_  
Value Code (see table) \_\_\_\_\_

### Schematic



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**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\*Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

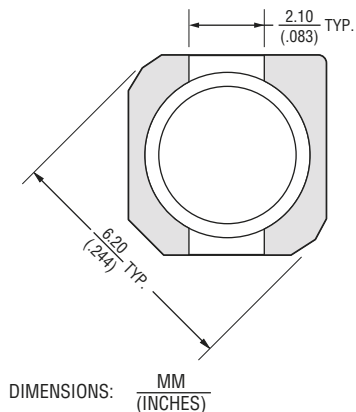
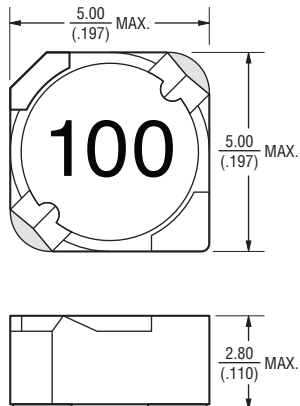
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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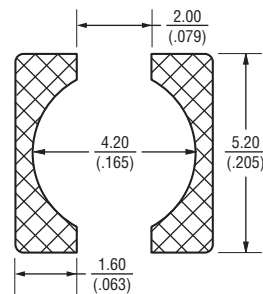
# SRR4528A Series – Shielded Power Inductors

**BOURNS®**

## Product Dimensions



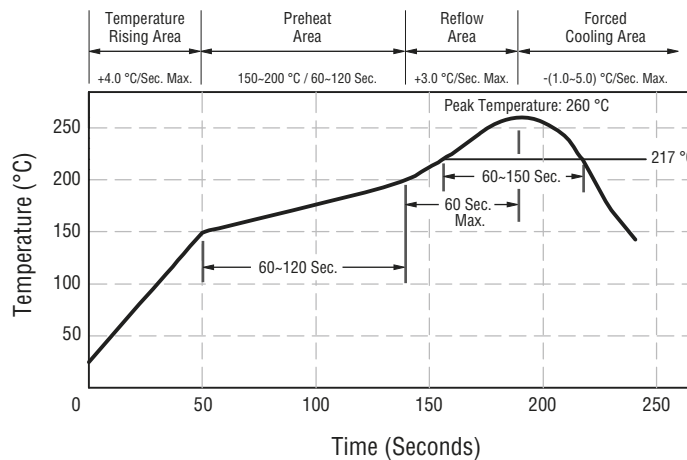
## Recommended Layout



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

## Soldering Profile

Peak Temperature: 260 °C max.  
Max. Peak Temperature -5 °C: 30 sec. max.  
Max. Time Above 217 °C: 60~150 sec. max.



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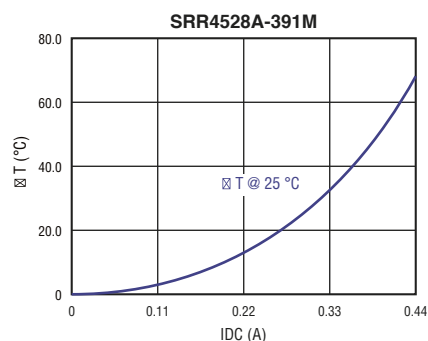
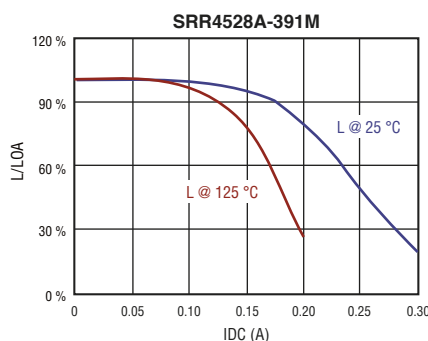
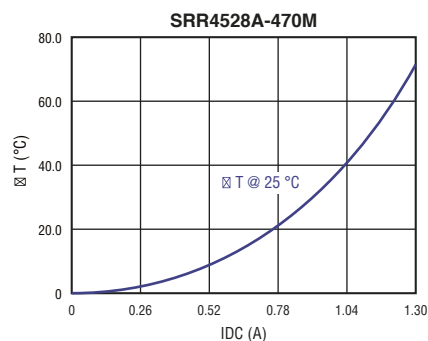
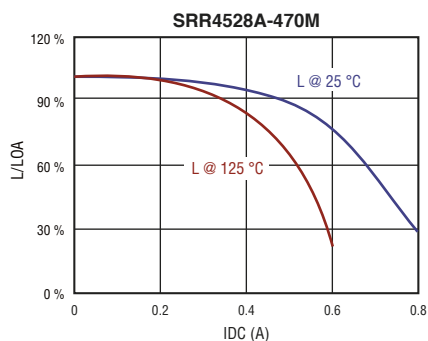
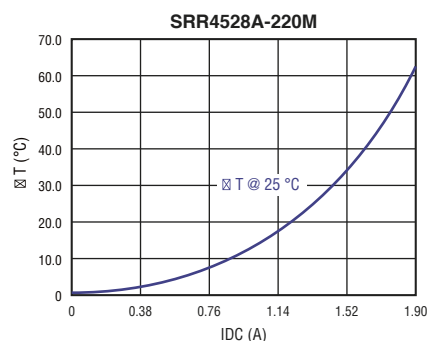
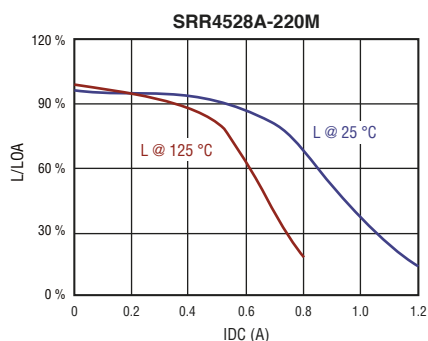
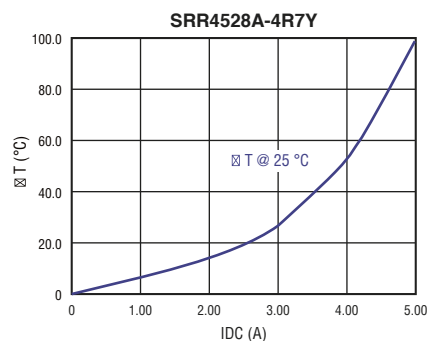
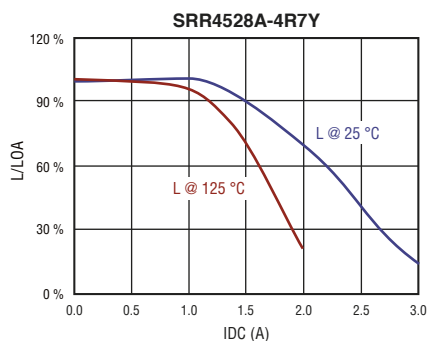
Users should verify actual device performance in their specific applications.

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# SRR4528A Series – Shielded Power Inductors

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## Inductance vs. Current and Temperature Rise vs. Current



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Technical drawing of a 100 Ohm resistor showing side, end, and carrier views with dimensions in mm and inches.

**Side View Dimensions:**

- Top width:  $16.5$  ( $.650$ )
- Bottom width:  $14 + 0$  ( $.551 + 0$ )
- Central width:  $50 - 0$  ( $1.969 - 0$ )
- Central diameter:  $13$  ( $.512$ ) DIA.
- Total height:  $178$  ( $7.008$ )

**End View Dimensions:**

- Outer diameter:  $178$  ( $7.008$ ) DIA.
- Inner diameter:  $2.0 \pm 0.5$  ( $.079 \pm .020$ )
- Central diameter:  $21.0 \pm 0.8$  ( $.827 \pm .031$ ) DIA.

**Carrier View Dimensions:**

- Thickness:  $0.10$  ( $.004$ ) MAX.
- Carrier width:  $12$  ( $.472$ )
- Carrier length:  $8.0$  ( $.315$ )
- Carrier spacing:  $4.0$  ( $.157$ )
- Carrier diameter:  $12$  ( $.472$ )

**Carrier Assembly Dimensions:**

- NO COMPONENT:  $200$  ( $7.874$ )
- COMPONENTS:  $400$  ( $15.748$ )
- NO COMPONENT:  $400$  ( $15.748$ )

**Dimensions:** MM (INCHES)

**USER DIRECTION OF FEED**

**QTY: 500 PCS PER REEL**

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